

INPUT SET: S1102.raw

SEQUENCE LISTING

3 (1) General Information:

5 (i) APPLICANTS: Manoharan, Muthiah
6 Phillip D. Cook

8 (ii) TITLE OF INVENTION: AMINE-DERIVATIZED NUCLEOSIDES AND
9 OLIGONUCLEOSIDES

(iii) NUMBER OF SEQUENCES: 23

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz
and Norris
(B) STREET: One Liberty Place - 46th Floor
(C) CITY: Philadelphia
(D) STATE: PA
(E) COUNTRY: U.S.A.
(F) ZIP: 19103

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

29 (A) APPLICATION NUMBER:
30 (B) FILING DATE:
31 (C) CLASSIFICATION:

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: Lucci, Joseph
35 (B) REGISTRATION NUMBER: 33,307
36 (C) REFERENCE/DOCKET NUMBER: ISIS-1169

38 (ix) TELECOMMUNICATION INFORMATION:

39 (A) TELEPHONE: 215-568-3100
40 (B) TELEFAX: 215-568-3439

44 (2) INFORMATION FOR SEQ ID NO:1:

ENTERED

6

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/117,363A**DATE: 12/09/93
TIME: 12:26:35**INPUT SET: S1102.raw**

103
104 (2) INFORMATION FOR SEQ ID NO:5:
105
106 (i) SEQUENCE CHARACTERISTICS:
107 (A) LENGTH: 20 base pairs
108 (B) TYPE: nucleic acid
109 (C) STRANDEDNESS: single
110 (D) TOPOLOGY: linear
111
112 (ii) MOLECULE TYPE: DNA (genomic)
113
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
115
116 CTGTCTCCAT CCTCTTCACT 20
117
118
119 (2) INFORMATION FOR SEQ ID NO:6:
120
121 (i) SEQUENCE CHARACTERISTICS:
122 (A) LENGTH: 16 base pairs
123 (B) TYPE: nucleic acid
124 (C) STRANDEDNESS: single
125 (D) TOPOLOGY: linear
126
127 (ii) MOLECULE TYPE: DNA (genomic)
128
129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
130
131 TCCAGGTGTC CGCATC 16
132
133
134 (2) INFORMATION FOR SEQ ID NO:7:
135
136 (i) SEQUENCE CHARACTERISTICS:
137 (A) LENGTH: 17 base pairs
138 (B) TYPE: nucleic acid
139 (C) STRANDEDNESS: single
140 (D) TOPOLOGY: linear
141
142 (ii) MOLECULE TYPE: DNA (genomic)
143
144 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
145
146 GGACCGGAAG GTACGAG 17
147
148
149 (2) INFORMATION FOR SEQ ID NO:8:
150
151 (i) SEQUENCE CHARACTERISTICS:
152 (A) LENGTH: 17 base pairs
153 (B) TYPE: nucleic acid

**RAW SEQUENCE LISTING
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154 (C) STRANDEDNESS: single
155 (D) TOPOLOGY: linear
156
157 (ii) MOLECULE TYPE: DNA (genomic)
158
159 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
160
161 CCTGGCCTTC CATGCTC 17
162
163
164 (2) INFORMATION FOR SEQ ID NO:9:
165
166 (i) SEQUENCE CHARACTERISTICS:
167 (A) LENGTH: 17 base pairs
168 (B) TYPE: nucleic acid
169 (C) STRANDEDNESS: single
170 (D) TOPOLOGY: linear
171
172 (ii) MOLECULE TYPE: RNA (genomic)
173
174 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
175
176 CCUGGCCUUC CAUGCUC 17
177
178
179 (2) INFORMATION FOR SEQ ID NO:10:
180
181 (i) SEQUENCE CHARACTERISTICS:
182 (A) LENGTH: 12 base pairs
183 (B) TYPE: nucleic acid
184 (C) STRANDEDNESS: single
185 (D) TOPOLOGY: linear
186
187 (ii) MOLECULE TYPE: DNA (genomic)
188
189 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
190
191 CCCAGGUCA GA 12
192
193
194 (2) INFORMATION FOR SEQ ID NO:11:
195
196 (i) SEQUENCE CHARACTERISTICS:
197 (A) LENGTH: 12 base pairs
198 (B) TYPE: nucleic acid
199 (C) STRANDEDNESS: single
200 (D) TOPOLOGY: linear
201
202 (ii) MOLECULE TYPE: DNA (genomic)
203
204 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/117,363A**DATE: 12/09/93
TIME: 12:26:46**INPUT SET: S1102.raw**205
206 GAGCUCCAG GC 12

207

208

209 (2) INFORMATION FOR SEQ ID NO:12:

210

211 (i) SEQUENCE CHARACTERISTICS:
212 (A) LENGTH: 12 base pairs
213 (B) TYPE: nucleic acid
214 (C) STRANDEDNESS: single
215 (D) TOPOLOGY: linear

216

217 (ii) MOLECULE TYPE: DNA (genomic)

218

219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

220

221 CAUGCUGCAGCC 12

222

223

224 (2) INFORMATION FOR SEQ ID NO:13:

225

226 (i) SEQUENCE CHARACTERISTICS:
227 (A) LENGTH: 20 base pairs
228 (B) TYPE: nucleic acid
229 (C) STRANDEDNESS: single
230 (D) TOPOLOGY: linear

231

232 (ii) MOLECULE TYPE: DNA (genomic)

233

234 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

235

236 GCCTTCGCG ACCAACACU 20

237

238

239 (2) INFORMATION FOR SEQ ID NO:14:

240

241 (i) SEQUENCE CHARACTERISTICS:
242 (A) LENGTH: 11 base pairs
243 (B) TYPE: nucleic acid
244 (C) STRANDEDNESS: single
245 (D) TOPOLOGY: linear

246

247 (ii) MOLECULE TYPE: DNA (genomic)

248

249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

250

251 GCGTGUCTGC G 11

252

253

254 (2) INFORMATION FOR SEQ ID NO:15:

255

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/117,363A**DATE: 12/09/93
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256 (i) SEQUENCE CHARACTERISTICS:
257 (A) LENGTH: 18 base pairs
258 (B) TYPE: nucleic acid
259 (C) STRANDEDNESS: single
260 (D) TOPOLOGY: linear
261 (ii) MOLECULE TYPE: DNA (genomic)
262 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
263 UGGGAGCCAT AGCGAGGC 18
264
265
266
267
268
269 (2) INFORMATION FOR SEQ ID NO:16:
270 (i) SEQUENCE CHARACTERISTICS:
271 (A) LENGTH: 18 base pairs
272 (B) TYPE: nucleic acid
273 (C) STRANDEDNESS: single
274 (D) TOPOLOGY: linear
275 (ii) MOLECULE TYPE: DNA (genomic)
276 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
277 TGGGAGCCAU AGCGAGGC 18
278
279
280
281
282
283
284 (2) INFORMATION FOR SEQ ID NO:17:
285 (i) SEQUENCE CHARACTERISTICS:
286 (A) LENGTH: 20 base pairs
287 (B) TYPE: nucleic acid
288 (C) STRANDEDNESS: single
289 (D) TOPOLOGY: linear
290 (ii) MOLECULE TYPE: DNA (genomic)
291 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
292 UCTGAGTAGC AGAGGAGCTC 20
293
294
295
296
297
298
299 (2) INFORMATION FOR SEQ ID NO:18:
300 (i) SEQUENCE CHARACTERISTICS:
301 (A) LENGTH: 21 base pairs
302 (B) TYPE: nucleic acid
303 (C) STRANDEDNESS: single
304 (D) TOPOLOGY: linear
305
306

RAW SEQUENCE LISTING
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307 (ii) MOLECULE TYPE: DNA (genomic)
308
309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
310
311 UGCCCAAGCT GGCATCCGTC A 21
312
313
314 (2) INFORMATION FOR SEQ ID NO:19:
315
316 (i) SEQUENCE CHARACTERISTICS:
317 (A) LENGTH: 22 base pairs
318 (B) TYPE: nucleic acid
319 (C) STRANDEDNESS: single
320 (D) TOPOLOGY: linear
321
322 (ii) MOLECULE TYPE: DNA (genomic)
323
324 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
325
326 UGCGTTTGCT CTTCTTCTTG CG 22
327
328
329 (2) INFORMATION FOR SEQ ID NO:20:
330
331 (i) SEQUENCE CHARACTERISTICS:
332 (A) LENGTH: 20 base pairs
333 (B) TYPE: nucleic acid
334 (C) STRANDEDNESS: single
335 (D) TOPOLOGY: linear
336
337 (ii) MOLECULE TYPE: DNA (genomic)
338
339 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
340
341 UGCATCCCCC AGGCCACCAT 20
342
343
344 (2) INFORMATION FOR SEQ ID NO:21:
345
346 (i) SEQUENCE CHARACTERISTICS:
347 (A) LENGTH: 20 base pairs
348 (B) TYPE: nucleic acid
349 (C) STRANDEDNESS: single
350 (D) TOPOLOGY: linear
351
352 (ii) MOLECULE TYPE: DNA (genomic)
353
354 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
355
356 UCCCGCCTGT GACATGCATT 20
357

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358
359 (2) INFORMATION FOR SEQ ID NO:22:
360
361 (i) SEQUENCE CHARACTERISTICS:
362 (A) LENGTH: 20 base pairs
363 (B) TYPE: nucleic acid
364 (C) STRANDEDNESS: single
365 (D) TOPOLOGY: linear
366
367 (ii) MOLECULE TYPE: DNA (genomic)
368
369 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
370
371 GUTCTCGCTG GTGAGTTCA 20
372
373
374
375 (2) INFORMATION FOR SEQ ID NO:23:
376
377 (i) SEQUENCE CHARACTERISTICS:
378 (A) LENGTH: 19 base pairs
379 (B) TYPE: nucleic acid
380 (C) STRANDEDNESS: single
381 (D) TOPOLOGY: linear
382
383 (ii) MOLECULE TYPE: DNA (genomic)
384
385 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:
386
387 UUGGGAGCCA TAGCGAGGC 19

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**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/117,363A**

DATE: 12/09/93
TIME: 12:27:06

INPUT SET: S1102.raw

Line

Error

Original Text

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**SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/117,363A**

DATE: 12/09/93
TIME: 12:27:06

INPUT SET: S1102.raw

APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

PAGE: 1

**SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/117,363A**

DATE: 12/09/93

TIME: 12:27:07

INPUT SET: S1102.raw

Line	Original Text	Corrected Text
5	(i) APPLICANTS: Manoharan, Muthiah	(i) APPLICANT: Manoharan, Muthiah